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| Altri autori (Persone) | WuYe OuyangXue JiaQing-ren ChenHao ChenLuo |
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Nota di contenuto

Introduction -- The Architecture of High Performance Geographic Information System -- Management of Big Spatial Data -- Multi-paradigm Geocomputing -- Online Mapping and Visualization High performance GIS -- High performance GIS Platform -- Application of High performance GIS -- Trends of High performance GIS.

Sommario/riassunto

The development of earth observation and computing technology has promoted the wide application of spatio-temporal big data and artificial intelligence. The enrichment of data and the improvement of computational performance make it possible to perform spatio-temporal analysis and computation on a larger scale. Therefore, it is necessary to study the optimization methods and application methods of high performance geocomputing, starting from GIS architecture, in order to form a high performance GIS that can serve the society and economy and support various applications. This book focuses on the architecture, technology, platform and application of high-performance GIS, analyzes the key technologies of spatio-temporal big data organization and access, parallelized spatial analysis and processing, large-scale map rendering and parallel visualization under the high-performance computing architecture, explains how to build high-performance geographic information applications, and looks forward to the trend of the new generation of GIS.
